

Notice of Allowability

Application No.

09/925,827

Examiner

Prenell P. Jones

Applicant(s)

ZININ, ALEXEY DIMITRIEVICH

Art Unit

2668

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/12/05.

2. ☒ The allowed claim(s) is/are 1-65.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

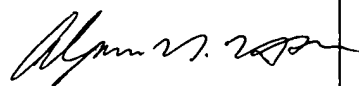
5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.



ALPUS H. HSU
PRIMARY EXAMINER

Reason for Allowance

1. Claims 1-65 are allowed over prior art.
2. The following is an examiner's statement of reasons for allowance: Although the combined prior art of Hao et al (US Pat 6,728,214) who discloses testing in a router network wherein faults are detected and OSPF routing protocol is utilized, whereby neighboring OSPF routers maintain their adjacency relationship by exchanging "Hello" packets, Lee (US Pat 6,985,959) who discloses distributive routing exchange, failure detection, OSPF routers are initialized thereby establishing adjacencies with neighbors, and routers send unicast Hello or keep-alive messages to each other, Li et al (US Pat 5,473,599) who discloses routing data packets in a router environment wherein OSPF routing protocol is utilized and routers could be in one of three states, and "Hello" messages are communicated among routers to establish status, and Leung (US Pat 6,487,605) who discloses OSPF as associated in a router environment, and "Hello" messages are communicated among routers and mobiles, Meier (US Pat 6,701,361) who discloses wireless terminals communicating with access points wherein "Hello" packets are broadcast, Bare (US Pat. 6,865,160, US Pat. 6,580,715, US PG PUB 20030016624) discloses managing paths and load balancing as associated with detected failures at the switch whereby "Hello" packets are used to determine which ports are capable of performing load balancing, Baelser et al (US 6,449,279) who discloses four basic components of a link state routing method, wherein each switch is responsible for meeting its neighbors and learning their names, and "Hello" packets are

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sent periodically on all switch interfaces in order to establish and maintain neighbor relationships, they fail to teach or suggest fairly with respect to claims 1, 7, 10, 16, 24, 25, 28, 29, 36, 37, 42, 47, 50, 56, 61, 63, 64, 65, restoring adjacencies between a router and its neighbors during re-load of routing software on a router which includes placing an interface of a router in a predetermined state that enables the router to receive incoming "Hello" packets from its neighbors, creating a unicast Hello packet in response to receiving an incoming Hell packet from each neighbor, with respect to claims 32, empty link state Update packet created by the processor and multicasted over the network in response to placement of the interface into a Waiting state during re-load of routing software, an inactivity timer is reset in response to receiving the empty link state update packet, with respect to claims 33, determine if a neighbor data structure exist for each neighbor from which Hello packet was received, if not creating a neighbor data structure for each neighbor from which an incoming Hello packet.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

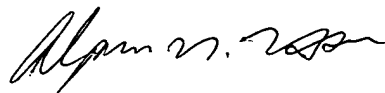
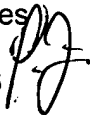
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prenell P. Jones

March 1, 2006



ALPUS H. HSU
PRIMARY EXAMINER